

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

WASHINGTON, D.C. 20546



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NOV 2 1971

NOTE FOR

Rm. 4E-50

Central Intelligence Agency

RE: Skylab Experimenters

The attached Press Release (with change sheet) announces the initial group of scientists tentatively chosen to analyze data from ERTS and/or Skylab.

I note that experimenters from 22 foreign countries have proposed experiments that have been tentatively approved.

We expect initial (very preliminary) time-lining and mission experiment optimization results in early December. I will let you know when we can discuss these first results.

Myron W. Krueger

Attachments - 2

cc: Dr. Steininger

State Dept. review completed

NASA review(s) completed.

DD/S&T
FILE COPY

NEWS



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (202) 962-4155
WASHINGTON, D.C. 20546 TELS: (202) 963-6925

FOR RELEASE: WEDNESDAY A.M.'s
OCTOBER 20, 1971

Richard T. Mitterer
(Phone: 202/75-53680)

RELEASE NO: 71-202

NASA TO SURVEY EARTH'S RESOURCES

A wide variety of the natural resources of Earth and man's management of them will be studied by an initial group of scientists tentatively chosen by the National Aeronautics and Space Administration to analyze data to be gathered by two Earth-orbiting spacecraft.

The spacecraft are the first Earth Resources Technology Satellite (ERTS-A) and the manned Skylab which will carry an Earth Resources Experiment Package (EREP).

The initial group of experimenters are from 28 states and the District of Columbia and from 22 foreign countries.

In the United States, the initial experiments will study the feasibility of remote sensing from satellite in gathering information on such things as:

- vegetation damage from highway construction in Maine,
- pollution of Lake Pontchartrain, Louisiana,

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- the effectiveness of measures to control pink bollworm infestation of cotton in the Imperial Valley of California,
- the color of the ocean for the improvement of commercial fishing off the coast of Oregon,
- the replanting of land used for strip mining in Ohio,
- county-wide land use planning in Florida,
- the grazing of wild and domestic animals on the public lands in the West,
- protection of the seacoast and tidal marshes in New Jersey,
- the role of the playa lakes in the resupply of ground water in the high plains of Texas,
- land use in BOSNYWASH, the megalopolis extending from Boston to Washington, D.C.
- the movement of sediment plumes in the Chesapeake and San Francisco Bays,
- permafrost and wildlife habitats in Alaska,
- the ecological effects of the meandering of the Gulf stream off the east coast of the U.S.,
- rural landscape changes in eastern Tennessee,
- the marine and coastal environment in Puerto Rico and the Virgin Islands,
- the formation and location of icebergs in the Antarctic,

-3-

- large scale weather effects on the lee or southeast shores of the Great Lakes,
- an active volcano in the Cascade mountains in Washington,
- storm and tidal erosion of the barrier islands chain off the Gulf coast of Texas,
- inventory of the timber resources in all the major types of forests in the U.S.,
- extent of snow cover for river and flood forecasting in the Sierra Nevada mountains, and
- analysis of the haze over Los Angeles.

Overseas, the first group of experiments will study the feasibility of surveying such things as:

- land use and soil erosion in Guatemala,
- a variety of ground resources in India,
- winter monsoon clouds and snow cover in Japan,
- the hydrologic cycle of the Santa River basin in Peru,
- urban and regional planning in Venezuela,
- snow surveys to assess the risk of spring floods in Norway, and
- detection of locust breeding sites in Saudi Arabia.

More than 700 scientists submitted proposals last June for experiments with ERTS and EREP data, the greatest number ever received by NASA.

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The ERTS proposals selected in this initial group are those on which no negotiations on the experiment plan were required with the proposer. In the case of EREP, however, some negotiations may be necessary with some proposers to determine the operation of the experiment by the Skylab astronauts.

Still in the selection process are a number of proposals which require such negotiations. Announcement of additional selections will be made by NASA in the next several months.

About 270 proposals have been rejected.

NASA will fund the experiments selected from U.S. proposers. The experiments proposed by foreign scientists will be funded by the scientist's own country.

In addition to the foreign experiments in this initial selection, cooperative Earth resources projects have been established with Brazil, Canada and Mexico involving aircraft as well as spacecraft remote sensing techniques.

The objective of both ERTS and the EREP aboard Skylab is to obtain multispectral images of the surface of the Earth with high resolution remote sensors and to process and distribute the images to scientific users in a wide variety of disciplines.

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ERTS-A is a 950 kilogram (2100-pound) automated satellite to be launched in the spring of 1972 by a Delta rocket from the Western Test Range into a Sun-synchronous, near polar orbit at an altitude of 910 kilometers (565 miles). ERTS-A will carry a return beam vidicon camera system using three vidicon cameras in three spectral bands and a multi-spectral scanner to sense in four spectral bands.

Data from ERTS will be telemetered to ground stations and then relayed to the NASA Data Processing Facility (NDPF) at the Goddard Space Flight Center, Greenbelt, Maryland. It is anticipated that a combination of more than 300,000 photographs and digital images will be produced each week. At the NDPF, the bulk of the ERTS data will be processed within ten days and made available to experimenters.

Skylab is an 86,000 kilogram (190,000-pound) spacecraft which will be launched unmanned in the spring of 1973 by a Saturn V from Cape Kennedy into a 435 kilometer (270 mile) orbit with an inclination of 50°. It will be manned by three-man crews for one 28-day and two 56-day periods over about eight months.

The EREP includes a six-camera multispectral photographic facility, an infrared spectrometer, a multispectral scanner, a K-band microwave radiometer, scatterometer, altimeter and L-band microwave radiometer.

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At the end of each manned visit to Skylab, data from EREP will be returned to Earth in the command module on photographic film and digital data on magnetic tape. Processing of the data will be at the Manned Spacecraft Center, Houston, Texas, which will distribute the data to experimenters.

Processed data on terrain features will be stored in retrievable and reproducible form at the Department of Interior's Earth Resources Observation System Data Center at Sioux Falls, South Dakota. Oceanographic and meteorological data will be stored at the National Oceanic and Atmospheric Administration's National Environmental Satellite Service at Suitland, Maryland.

There follows a list of the scientific experiments in the initial group. They are categorized by the state of the principal investigator.

The ERTS or EREP notation on the Proposal Number column indicates whether the experiment will be conducted with ERTS or EREP data. ERTS/EREP indicates the experiment will use data from both satellites.

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UNITED STATESINITIAL GROUP OF ERTS-A/EREP SCIENTIFIC EXPERIMENTSPROPOSAL
NUMBER

EXPERIMENTER AND INSTITUTION

EXPERIMENT

SITE

DISCIPLINE

CALIFORNIA

027 ERTS	Dr. Ralph C. Hall Natural Resources Management Corp., Eureka	Detection and monitoring of forest insect infestation in the Sierra Nevada Mountains	Yosemite National Park	Environmen- tal Quality, Ecology
042 ERTS	Ernest I. Rich School of Earth Sciences Stanford University Palo Alto	Structural and lithologic study of north coast range	Northern California	Geology
044 ERTS	Dr. Monem Abdel-Gawad North American Rockwell Thousand Oaks	Identification and interpre- tation of tectonic features from ERTS	Southwestern U.S., Red Sea and African Rift	Geology
059 ERTS	John L. Hult Rand Corporation Santa Monica	Surveying Antarctic iceberg resources	Antarctica	Oceanography
084 ERTS	Dr. Lowell N. Lewis University of California at Riverside	Remote sensing in controlling pink bollworm in cotton	Coachella, Imperial and Palo Verde Valleys	Agriculture, Forestry
153 ERTS	Dr. Donald J. Spencer TRW Systems Group Redondo Beach	Image data compression technique	Worldwide	Interpreta- tion Technique Development
154 ERTS	John E. Taber TRW Systems Group Redondo Beach	Digital correction techniques	No specific site	Interpreta- tion Technique Development

INITIAL GROUP OF ERTS-A/EREP SCIENTIFIC EXPERIMENTS

PROPOSAL NUMBER	EXPERIMENTER AND INSTITUTION	EXPERIMENT	SITE	DISCIPLINE
<u>CALIFORNIA</u>				
206 ERTS	Dr. Erk Reimnitz U.S. Geological Survey Menlo Park	Studies of inner shelf and coastal sedimentation	North coast of Alaska	Oceanography
207 ERTS	Oscar J. Ferrians U.S. Geological Survey Menlo Park	Permafrost and geologic hazards in Alaska	Alaska	Geology
226 ERTS	Robert C. Heller U.S. Department of Agriculture, Berkeley	Identification of forest, rangeland, water resources and forest stress	Atlanta, Ga., Black Hills, S.D. and Manitou, Colo.	Agriculture, Forestry
230 ERTS	Dr. Ernest H. Rogers Aerospace Corporation Los Angeles	Remote haze monitoring by satellite	Los Angeles	Environmen- tal Quality, Ecology
245 ERTS	Dr. Claus B. Ludwig General Dynamics Corp. San Diego	Determination of the aerosol content in the atmosphere	Southern California	Environmen- tal Quality, Ecology
409 EREP	James V. A. Trumbull U.S. Geological Survey Menlo Park	Marine and coastal processes on Puerto Rico and Virgin Islands	Puerto Rico and Virgin Islands	Geology
438 EREP	Dr. Monem Abdel-Gawad North American Rockwell Thousand Oaks	Identification and interpre- tation of tectonic features	Southwestern U.S.	Geology

INITIAL GROUP OF ERTS-A/EREP SCIENTIFIC EXPERIMENTS

PROPOSAL NUMBER	EXPERIMENTER AND INSTITUTION	EXPERIMENT	SITE	DISCIPLINE
<u>CALIFORNIA</u>				
463 EREP	Dr. Paul M. Merifield Earth Science Research Corp. Santa Monica	Investigate peninsula range	Southwestern California	Geology
574 EREP	Dr. P. A. Davis Stanford Research Institute Menlo Park	Airborne lidar (light detec- tion and ranging) observations in support of studies of atmospheric radiative transfer	Texas	Meteorology
599 EREP	Dr. Dale F. Leipper Naval Postgraduate School Monterey	Remotely sensed data as a supplement to surface ocean observation	No site required	Oceanography
<u>COLORADO</u>				
131 ERTS	Edwin D. McKee U.S. Geological Survey Denver	Study of morphology	Africa and Asia	Geology
147 ERTS	Thomas Heller U.S. Geological Survey Denver	Range quality during normal grazing season	Oregon, Arizona and Alaska	Agriculture, Forestry
208 ERTS	Larry D. Cast U.S. Geological Survey Denver	Remote sensing of reclamation	Rocky Moun- tains, and Colo. and Wyoming	Geology
234 ERTS	Lynn M. Shown U.S. Geological Survey Denver	Preparation of hydrological atlases of arid land water- sheds	Northeastern Montana, Wyoming and New Mexico	Hydrology

INITIAL GROUP OF ERTS-A/EREP SCIENTIFIC EXPERIMENTS

PROPOSAL NUMBER	EXPERIMENTER AND INSTITUTION	EXPERIMENT	SITE	DISCIPLINE
<u>COLORADO</u>				
236 ERTS	Harry W. Smedes U.S. Geological Survey Denver	Computer mapping of terrain	Yellowstone National Park, Wyoming, Montana and Idaho	Geology
238 ERTS	Dr. Roger B. Morrison U.S. Geological Survey Denver	ERTS imagery of the Great Plains	Illinois, Iowa, Missouri, Nebraska and South Dakota	Geology
381 EREP	Dr. P. M. Kuhn National Oceanic and Atmospheric Administration Boulder	Concentrated atmospheric radiation project	Texas and Arizona	Meteorology
487 EREP	Kenneth Watson U.S. Geological Survey Denver	Remote sensing of geophysics	Southeastern Calif. and Mill Creek, Oklahoma	Geology
491 EREP	Dr. Roger B. Morrison U.S. Geological Survey Denver	EREP imagery of the Great Plains	Central Great Plains: Ill., Iowa., Mo., Kan., Neb., S.D.	Geology
<u>DELAWARE</u>				
477 EREP	Dr. Vytautas Klemas University of Delaware Newark	Ecological, geological and oceanographic studies	Delaware Bay and estuaries	Ecology

INITIAL GROUP OF ERTS-A/EREP SCIENTIFIC EXPERIMENTS

PROPOSAL NUMBER	EXPERIMENTER AND INSTITUTION	EXPERIMENT	SITE	DISCIPLINE
<u>DISTRICT OF COLUMBIA</u>				
140 ERTS	Dr. Richard R. Anderson American University	Monitoring wetlands and shallow water environments with ERTS	Chesapeake Bay, part of N. Carolina	Environmen- tal Quality, Ecology
141 ERTS	Dr. Frank J. Wobber Earth Satellite Corp.	Monitor snow cover and snow melting to obtain geological information	Mass. and W. Virginia	Geology
186 ERTS	Dr. John L. Place U.S. Geological Survey	Land use mapping and modeling for the Phoenix quadrangle	Arizona ecological test site	Environmen- tal Quality, Ecology
235 ERTS	Bill J. Van Tries Bureau of Sport Fisheries and Wildlife	Management of wildlife habitat in Alaska	Alaska	Environmen- tal Quality, Ecology
251 ERTS	Jules D. Friedman U.S. Geological Survey	Thermal surveillance of active volcano--Cascade range	Oregon, Wash. and California	Geology
258 ERTS	Dr. Paul M. Maughan Earth Satellite Corp.	To improve menhaden fishery predictions	Gulf of Mexico	Oceanography
297 ERTS	Dr. William A. Brewer Earth Satellite Corp.	Mineral exploration potential of ERTS data	Arizona (South Central)	Geology
363 EREP	Allan Shapiro Naval Research Laboratory	Derive terrain properties and topography from shape of EREP	Across U.S.A. Atlantic and Pacific Oceans	Interpre- tation Technique Development

INITIAL GROUP OF ERTS-A/EREP SCIENTIFIC EXPERIMENTS

PROPOSAL

NUMBER	EXPERIMENTER AND INSTITUTION	EXPERIMENT	SITE	DISCIPLINE
<u>DISTRICT OF COLUMBIA</u>				
455 EREP	Morris Deutsch U.S. Department of Interior	Hydrologic significance of faults in the Great Smokey Mountains National Park	N.Carolina, Great Smokey Mountains National Park	Hydrology
474 EREP	Dr. William A. Brewer Earth Satellite Corp.	Mineral exploration potential of EREP data	Arizona	Geology
485 EREP	Dr. Richard R. Anderson American University	Wetlands ecology using EREP data	New Jersey, Maryland, N.Carolina and S.Carolina	Ecology
<u>FLORIDA</u>				
108 ERTS/EREP	George A. Maul National Oceanic and Atmospheric Administration Miami	Remote sensing of ocean currents	New York, Pennsylvania, Maryland, Florida and Gulf of Mexico	Oceanography
196 ERTS	John W. Hannah Brevard County Planning Department, Titusville	Remote sensing in urban and regional planning	Florida	Geography
385 EREP	John W. Hannah Brevard County Planning Department, Titusville	Remote sensing in urban and regional planning	Florida	Geography
<u>INDIANA</u>				
325 ERTS/EREP	Dr. Charles Wier Indiana Geological Society, Bloomington	Application of imagery to fracture-related mine safety hazards	Indiana	Geology

INITIAL GROUP OF ERTS-A/EREP SCIENTIFIC EXPERIMENTS

PROPOSAL NUMBER	EXPERIMENTER AND INSTITUTION	EXPERIMENT	SITE	DISCIPLINE
<u>KANSAS</u>				
519-1 EREP	Dr. Richard K. Moore University of Kansas Lawrence	S-193 performance evaluation and data collection for future systems design	Various	Sensor Technology
519-3 EREP	Dr. Richard K. Moore University of Kansas Lawrence	S-193 performance evaluation and radseat performance evaluation	Various	Sensor Technology
<u>LOUISIANA</u>				
255 ERTS	John U. Hidalgo Tulane University New Orleans	Study of ecology of Lake Pontchartrain	Lake Pont- chartrain	Environmen- tal Quality, Ecology
<u>MAINE</u>				
254 ERTS	Raymond G. Woodman Maine State Highway Commission, Bangor	Map glaciofluvial deposits and land forms	Maine	Geology
255 ERTS	Ernest Stoeckeler Maine State Highway Commission, Bangor	Detection and monitoring of vegetation damage	Maine	Environmen- tal Quality, Ecology
455 EREP	Ernest G. Stoeckeler Maine State Highway Commission, Bangor	Multidisciplinary analysis for highway engineering	Maine	Geology
<u>MARYLAND</u>				
113 ERTS	Allan Jelacic Wolf Research and Development Corp., Riverdale	Interdependence of lake ice and climate	Central North America	Meteorology

INITIAL GROUP OF ERTS-A/EREP SCIENTIFIC EXPERIMENTS

PROPOSAL NUMBER	EXPERIMENTER AND INSTITUTION	EXPERIMENT	SITE	DISCIPLINE
MARYLAND				
161 ERTS	Ralph Bernstein I.B.M. Corp. Gaithersburg	All-digital precision processing of ERTS images	No site required	Interpretation- Technique Development
168 ERTS	Dr. Norman A. Macleod Goddard Space Flight Center Greenbelt	Observations of plant growth and annual flooding in Niger River, West Africa	Inland delta of Niger River, West Africa	Hydrology
169 EREP	Morton Keller National Oceanic and Atmospheric Administration Rockville	Feasibility of EREP photography for coastal zone mapping at small scales	Chesapeake Bay and Delaware Bay	Geography
MASSACHUSETTS				
174 ERTS	Nicholas Gramenopoulos Itek Corp. Lexington	Automated thematic mapping and change detection	Lexington, Mass.	Environmental Quality Ecology
181 ERTS	James C. Barnes Allied Research Associates Concord	Application of imagery for snow cover surveys	Sierra Nev., Upper Columbia Basin, Salt River Project, Upper Miss. and Missouri Basins	Hydrology
182 ERTS	Dr. Paul Mohr Smithsonian Institution Cambridge	Mapping major structures of African Rift system	Ethiopia, East and Central Africa	Geology

INITIAL GROUP OF ERTS-A/EREP SCIENTIFIC EXPERIMENTS

PROPOSAL NUMBER	EXPERIMENTER AND INSTITUTION	EXPERIMENT	SITE	DISCIPLINE
MASSACHUSETTS				
389 EREP	David T. Chang Allied Research Associates Concord	Development of improved techniques for mapping sea and lake ice	Great Lakes and Eastern Canadian Seaboard	Oceanography
439 EREP	David T. Chang Allied Research Associates Concord	Atmospheric effects on radio- metric measurements using EREP	Continental U.S.	Interpre- tation Technique Development
555 ERTS	Prof. H. T. U. Smith University of Massachusetts Amherst	Mapping and analysis of sand dune fields and related eolian erosional features	Africa and Asia	Geology
MICHIGAN				
77 ERTS	Frederick J. Thompson University of Michigan Ann Arbor	Map terrain features in Yellowstone National Park	Yellowstone National Park, Wyoming	Geology
99 ERTS	Dr. John W. Petty Bendix Corporation Ann Arbor	Ecological effects of strip mining in Ohio	Eastern Ohio	Environmen- tal Quality Ecology
101-4 ERTS	Prof. E. P. Whiteside Michigan State University East Lansing	Identification of soils and soil conditions	Michigan	Agriculture Forestry
101 EREP	John G. Braithwaite University of Michigan Ann Arbor	Investigate S-192 operations performance	No site required	Sensor Technology

INITIAL GROUP OF ERTS-A/EREP SCIENTIFIC EXPERIMENTS

PROPOSAL NUMBER	EXPERIMENTER AND INSTITUTION	EXPERIMENT	SITE	DISCIPLINE
<u>MICHIGAN</u>				
422 EREP	David C. Anding University of Michigan Ann Arbor	Measure sea temperature and cloud properties	Gulf of Mexico	Oceanography
450 EREP	Dr. Robert E. Turner University of Michigan Ann Arbor	Determination of the earth's aerosol albedo	No site required	Meteorology
598 ERTS	Dr. Vann Elliot Smith Bendix Corporation Ann Arbor	Study of eutrophication of inland lakes	Oakland County, Southeastern Michigan	Hydrology
<u>MINNESOTA</u>				
257 ERTS	George D. Swanlund Honeywell Minneapolis	Automatic photo interpretation for land use management	Minnesota	Interpre- tation Technique Development
<u>MISSOURI</u>				
68 ERTS	Jerry D. Vineyard Missouri Geological Survey Rolla	Land use planning in the St. Louis-Kansas City corridor	Missouri	Geology
110 ERTS	James F. Daniel U.S. Geological Survey St. Louis	Performance of ERTS system on a total system context	Nationwide	Hydrology
240 ERTS/EREP	William H. Stevenson National Oceanic and Atmospheric Administration St. Louis	Relate oceanographic data to fish resource abundance	Gulf of Mexico, Northeastern Coast of U.S.	Oceanography

INITIAL GROUP OF ERTS-A/EREP SCIENTIFIC EXPERIMENTS

PROPOSAL NUMBER	EXPERIMENTER AND INSTITUTION	EXPERIMENT	SITE	DISCIPLINE
<u>NEBRASKA</u>				
020 ERTS	Dr. James V. Drew University of Nebraska Lincoln	Mapping and managing soil and range resources in the Sand Hills region	North central Nebraska	Agriculture Forestry
<u>NEVADA</u>				
029 ERTS	Dr. Paul T. Tueller University of Nevada Reno	Develop method of satellite imagery for wildlife resource evaluation	Great Basin Nevada	Agriculture Forestry
029 ERTS	Dr. Joseph Lintz, Jr. University of Nevada Reno	Compilation of two photo maps of the State of Nevada	Nevada	Geography, Demography, Cartography
<u>NEW HAMPSHIRE</u>				
111 ERTS	Dr. Robert B. Simpson Dartmouth College Hanover	Land use of northern megalopolis	New England	Geography
<u>NEW JERSEY</u>				
159 ERTS	John M. Danko RCA, Princeton	Meteorological utility of high resolution multispectral data	To be determined	Meteorology
364 ERTS	Roland Yunghans Department of Environmental Protection, Trenton	Protection and management of New Jersey coastal environment	N.J. coast, Sandy Hook to Cape May	Environmental Quasity, Ecology
<u>NEW YORK</u>				
070 ERTS/EREP	Dr. Edward Yost Long Island University Greenvale	Estuarine and coastal oceanography of Block Island Sound and adjacent New York water	New York Block Island Sound	Oceanography

INITIAL GROUP OF ERTS-A/EREP SCIENTIFIC EXPERIMENTS

PROPOSAL

NUMBER

EXPERIMENTER AND INSTITUTION

EXPERIMENT

SITE

DISCIPLINE

NEW YORK

149-9

Dr. Bernard E. Dethier
Cornell University
Ithaca

Evaluate satellite data as a
source of useful information
for agriculture/forestry

Alaska,
Indiana,
Maine, Mich.,
New York,
Puerto Rico,
Pennsylvania,
Texas, Vermont
and Virginia

Agriculture
Forestry

214-9
ERTS/EREP

William Harting
Tri-State Transportation
New York City

Investigate satellite imagery
for regional planning

New Jersey,
New York and
Connecticut

Geography

344-9
ERTS

Dr. Yngvar W. Isachsen
University of State of
New York, Albany

Evaluate usefulness of
satellite imagery as geological
sensor

New York
State

Geology

454-9
EREP

Dr. Edward Yost
Long Island University
Greenvale

Application of advanced
image processing techniques
to S-190

No site
required

Interpretation
Techniques
Development

NORTH CAROLINA

016-9
ERTS

Dr. Charles W. Welby
North Carolina State
University, Raleigh

Use of satellite data in
geological data regional
planning, forests, etc.

N. Carolina

Geology,
Forestry,
Hydrology

OKLAHOMA

173-9
ERTS

Dr. Robert Collins
Eason Oil Company
Oklahoma City

Evaluation of suitability of
ERTS data for petroleum
exploration

Oklahoma
and Texas

Geology

Approved For Release 2007/02/07 : CIA-RDP74B00681R000100150005-1

INITIAL GROUP OF ERTS-A/EREP SCIENTIFIC EXPERIMENTS

PROPOSAL NUMBER	EXPERIMENTENTER AND INSTITUTION	EXPERIMENT	SITE	DISCIPLINE
<u>OKLAHOMA</u>				
495 ERTS	Dr. Robert Collins Eason Oil Company Oklahoma City	Evaluation of suitability of EREP data for petroleum exploration	Oklahoma and Texas	Geology
<u>PENNSYLVANIA</u>				
190 ERTS	Richard W. Paulson U.S. Geological Survey Harrisburg	Near real-time water resources data for river basin management	Pennsylvania, Sensor Delaware, New Jersey and New York	Geology
<u>SOUTH CAROLINA</u>				
507 ERTS	N. K. Olson South Carolina State Development Board, Columbia	Applicability of multispectral photography to mineral and land resources of South Carolina	S. Carolina	Geology
<u>TENNESSEE</u>				
1623 ERTS	John B. Rehder University of Tennessee Knoxville	Geographic applications of imagery to rural landscape change	East Tennessee	Geography
<u>TEXAS</u>				
010 ERTS	D. W. Fryrear U.S. Department of Agriculture, Big Springs	Wind erosion of soils	Big Springs, Texas	Agriculture, Forestry
057 ERTS	Grant H. Heiken Manned Spacecraft Center Houston	Observation of volcanic activity	Worldwide, Central and South America	Geology

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PROPOSAL NUMBER	EXPERIMENTENTER AND INSTITUTION	EXPERIMENT	SITE	DISCIPLINE
183 ERTS	Dr. Ralph E. Hunter U.S. Geological Survey Corpus Christi	Monitoring changing geologic features along the Texas Gulf coast	Texas Gulf coast	Geology
342-3 ERTS	Dr. William D. Miller Texas Tech University Lubbock	Dynamics of playa lakes in the Texas high plains	Texas	Hydrology
411 EREP	Dr. H. S. Hayre University of Houston	Cross-correlation study of surface roughness effects on rolling terrain	Texas	Sensor Technology
581 EREP	R. Bryan Erb Manned Spacecraft Center Houston	Utilization of EREP data in Houston test site	Texas	Ecology
581 EREP	Dr. David E. Pitts Manned Spacecraft Center Houston	Investigation of severe storm environments	Worldwide, emphasis on Beta network in Central Oklahoma	Meteorology
581 EREP	Dr. David E. Pitts Manned Spacecraft Center Houston	Land-use signature evaluation	Worldwide, emphasis on U.S.	Interpre- tation Technique Development
581 EREP	Dr. Thomas L. Barnett Manned Spacecraft Center Houston	Comprehensive study of atmos- pheric attenuation	No site required	Interpre- tation Technique Development

INITIAL GROUP OF ERTS-A/EREP SCIENTIFIC EXPERIMENTS

PROPOSAL NUMBER	EXPERIMENTENTER AND INSTITUTION	EXPERIMENT	SITE	DISCIPLINE
<u>TEXAS</u>				
58 EREP	David L. Tingley Manned Spacecraft Center Houston	Quantitative determination of stratospheric aerosol characteristics	No site required	Meteorology
60 ERTS	R. Bryan Erb Manned Spacecraft Center Houston	Utilization of ERTS data for Houston area	Texas	Environmental Quality, Ecology
<u>VERMONT</u>				
34 ERTS	Dr. Aulis O. Lind University of Vermont Burlington	Environmental study of Lake Champlain Basin	Lake Champlain Basin	Hydrology
<u>VIRGINIA</u>				
11 ERTS	Dean T. Edson U.S. Geological Survey McLean	Application of ERTS imagery to thematic mapping	No site required	Geography
15 ERTS	Dr. Robert B. McEwen U.S. Geological Survey McLean	Cartographic evaluation of satellite data	No site required	Geography
16 ERTS	Dr. Lynn Glover III Virginia Polytechnic Institute, Blacksburg	Geological land form analysis in Virginia and North Carolina	Virginia and N. Carolina	Geology
21 ERTS	Joseph T. Pilonero U.S. Geological Survey McLean	Compile small scale photomaps of U.S. from ERTS data	Chesapeake Bay, Arizona, Dakotas, and Lake Erie	Geography

INITIAL GROUP OF ERTS-A/EREP SCIENTIFIC EXPERIMENTS

PROPOSAL

NUMBER	EXPERIMENTER AND INSTITUTION	EXPERIMENT	SITE	DISCIPLINE
VIRGINIA				
23 ERTS	Dr. Alden P. Colvocoresses U.S. Geological Survey McLean	Evaluation of ERTS imagery for cartographic application	No site required	Geography
27 ERTS	Joseph W. Luckus U.S. Geological Survey McLean	Man-made culture interpreta- tion and map revision from ERTS imagery	U.S.	Geography, Demography, Cartography
47 EREP	John D. McLaurin U.S. Geological Survey McLean	Cartographic evaluation of S-192 scanner images	No site required	Geography
49 EREP	Joseph T. Pilonero U.S. Geological Survey McLean	Compile small scale photomaps of U.S. from S-190 data	Chesapeake Bay, Lake Erie, Arizona and Dakotas	Geography
49 EREP	Joseph W. Luckus U.S. Geological Survey McLean	Man-made cultural interpreta- tion and map revision from EREP data	U.S.	Geography
50 EREP	Dr. Alden P. Colvocoresses U.S. Geological Survey McLean	Overall evaluation of EREP images for cartographic application	U.S. and selected foreign areas	Geography
50 EREP	Dean T. Edson U.S. Geological Survey McLean	Application of EREP imagery to thematic mapping	U.S.	Geography
51 EREP	Dr. William V. Hargis, Jr. Virginia Institute of Marine Science, Gloucester Point	Southern Chesapeake Bay water color and circulation analysis	Southern Chesapeake Bay	Oceanography

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INITIAL GROUP OF ERTS-A/EREP SCIENTIFIC EXPERIMENTS

PROPOSAL NUMBER	EXPERIMENTER AND INSTITUTION	EXPERIMENT	SITE	DISCIPLINE
<u>WISCONSIN</u>				
058 ERTS	Prof. James L. Clapp University of Wisconsin Madison	Application of ERTS data to regional land use planning process	Wisconsin, Lakes Michigan and Superior	Environmental Quality, Ecology
220 ERTS	Dr. Walter A. Lyons University of Wisconsin Madison	Use ERTS data for Great Lakes mesometeorological studies	Lake Mich. and Lake Ontario Basins	Meteorology
351 EREP	Dr. Clarence F. Becker University of Wyoming Laramie	Energy exchange at the atmos- phere-soil interface	Wyoming and Colorado	Ecology
<u>WYOMING</u>				

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FOREIGN

INITIAL GROUP OF ERTS-A/EREP SCIENTIFIC EXPERIMENTS

PROPOSAL NUMBER	EXPERIMENT	EXPERIMENT	EXPERIMENT	SITE	DISCIPLINE
<u>AUSTRALIA</u>					
333 ERTS	Dr. N. H. Fisher Australian Committee for ERTS, Canberra	Earth resources imagery of Aus- tralia, Antarctica, Papua, and New Guinea	Australia, Papua, New Guinea		Geology
557 EREP	Dr. N. H. Fisher Australian Committee for ERTS, Canberra	Usefulness of EREP data for Earth resources studies in Australia	Australia		Geology
<u>BAZIL</u>					
Data to be provided as part of a cooperative Brazil/U.S. remote sensing program for Earth resources energy.					
<u>CANADA</u>					
Data to be provided as part of a cooperative Canadian/U.S. program of experimental remote sensing from satellites and aircraft.					
<u>CHILE</u>					
332 ERTS	Rene Saa Institute for Investigation of Natural Resources, Santiago	Annual and seasonal changes in the use of soil	Chile		Agriculture Forestry Geography
<u>COLOMBIA</u>					
335 ERTS	Dr. Bastian N. Koopmans Centro Interamericano de Fotointerpretacion, Bogota	Soil survey, land use and sur- face water in the savannah areas of Llanos Orientales	Llanos Orientales, Colombia		Agriculture Forestry Hydrology
360 ERTS	Dr. Ramiro G. Delgado University Del Valle, Cali	Environmental quality assessment and ecological diagnosis for health actions	Cali, Colombia		Environmen- tal Quality, Ecology

INITIAL GROUP OF ERTS-A/EREP SCIENTIFIC EXPERIMENTS

PROPOSAL NUMBER	EXPERIMENTER AND INSTITUTION	EXPERIMENT	SITE	DISCIPLINE
<u>ECUADOR</u>				
371 ERTS	Dr. Nester V. Moreno National Planning Council, Quito	Agricultural, forestry and hydrologic surveys in Ecuador	Andean pla- teau, Ecuador	Agricultur Forestry
<u>FRANCE</u>				
008 EREP	M. Villevieille French Weather Bureau	Meteorological research (cloud physics)	France	Meteorolog
031 ERTS	Dr. Fenand Verger Ecole Pratique des Hautes Etudes, Paris	Study of alluvial zones	Atlantic Littoral, France	Geography Geology Hydrology
051 ERTS	Paul-Augustin Rey French National Center for Scientific Research, Toulouse	Development of automatic data interpretation	Southwest France	Agricultur Forestry

INITIAL GROUP OF ERTS-A/EREP SCIENTIFIC EXPERIMENTS

PROPOSAL NUMBER	EXPERIMENTER AND INSTITUTION	EXPERIMENT	SITE	DISCIPLINE
*54 ERTS	Dr. Jean-Claude M. Thomas Catholic University of America Washington, D.C.	Analysis and use in research, teaching and other applications of Rhone Delta and neighboring regions	Southern France	Geography Demography Cartography
32 ERTS/EREP	Dr. Dieter Bannert Geological Survey, Federal Republic of Germany, Hannover- Buchholz	Multidisciplinary geoscientific experiments in Central Europe	W. Germany and adjacent areas	Geology Geography Cartography
05 ERTS	Dr. N. J. Yassoglou, Greek Nuclear Research Center, Athens	Land use map, forest, soil surveys	Greece	Agriculture Forestry
36 ERTS	Dr. Luis Garcia National Geographical Insti- tute, Guatemala City	Updating land use and resource data in Guatemala	Guatemala	Agriculture Forestry Hydrology

* Dr. Thomas is a French citizen and his experiment is to be funded by France.

INITIAL GROUP OF ERTS-A/EREP SCIENTIFIC EXPERIMENTS

PROPOSAL NUMBER	EXPERIMENTER AND INSTITUTION	EXPERIMENT	SITE	DISCIPLINE
<u>INDIA</u>				
58-4 ERTS	Dr. P. R. Pisharoty Indian Space Research Organization, Ahmedabad	Survey of Indian ground resources using ERTS data	India and adjacent seas and Arabian Sea	Agriculture Hydrology Oceanography
58-3 EREP	Dr. P. R. Pisharoty Indian Space Research Organization, Ahmedabad	Survey of Indian ground resources using EREP data	India and adjacent Seas	Oceanography Hydrology Geology
<u>INDONESIA</u>				
58-4 ERTS	Dr. John A. Katili Indonesian Institute of Science, Djakarta	Investigation of satellite use in acceleration of natural re- source exploration	Indonesia	Geology
<u>ISRAEL</u>				
58-3 EREP	Prof. Joseph Otterman Tel Aviv University	Surveys in hydrology, agri- culture and oceanography	Israel	Hydrology Agriculture Oceanography
58-4 EREP	Prof. Joseph Otterman Tel Aviv University	Survey of agriculture, forestry and natural vegetation	Israel	Agriculture Forestry
<u>JAPAN</u>				
58-1 ERTS/EREP	Dr. Takakazu Maruyasu Science and Technology Agency Tokyo	Investigation of the environ- mental change pattern of Japan	Japan and sea areas	Environmental Quality/ Ecology

INITIAL GROUP OF ERTS-A/EREP SCIENTIFIC EXPERIMENTS

PROPOSAL NUMBER	EXPERIMENTER AND INSTITUTION	EXPERIMENT	SITE	DISCIPLINE
<u>JAPAN</u>				
022 ERTS/EREP	Kiyoshi Tsuchiya Japan Meteorological Agency Tokyo	Study of mesoscale phenomena, winter monsoon clouds and snow area	Japan	Meteorology
<u>KOREA</u>				
570 ERTS	Dr. Joung Hwan Lee Geological Survey of Korea	Geological and structural features of Korean Peninsula	Korea	Geology
<u>MEXICO</u>				
Data to be provided as part of a cooperative Mexico/U.S. remote sensing program for Earth resources survey.				
<u>NORWAY</u>				
374 ERTS	Ole H. Bremne Norwegian Meteorological Institute, Oslo	Studies of sea ice in the Spitzbergen area	Greenland and Oceanography Barents Sea	
375 ERTS	Helge Odegaard State Power Board, Oslo	Snow surveying to assess risk of spring flooding	Southern Norway	Hydrology
376 ERTS	Olav M. Skulberg Royal Norwegian Council for Scientific and Industrial Research, Oslo	Study of environmental quality	Norway and Spitzbergen Archipelago	Environmental Quality/ Ecology
<u>PERU</u>				
302 ERTS	Dr. Jose C. Pomalaza Institute Geofisico Del Peru, Lima	Application of remote sensing techniques to the study of the Santa River Basin	Santa River Basin, Peru	Hydrology

INITIAL GROUP OF ERTS-A/EREP SCIENTIFIC EXPERIMENTS

PROPOSAL NUMBER	EXPERIMENTER AND INSTITUTION	EXPERIMENT	SITE	DISCIPLINE
<u>SOUTH AFRICA</u>				
577 ERTS	B. P. Gilbertson Spectral Africa (PTY) Limited, Randfontein	Monitor vegetation growth on mine dumps	Republic of South Africa	Environmental Quality Ecology
<u>SWITZERLAND</u>				
333 ERTS/EREP	Dr. Harold Haefner University of Zurich	Snow survey and vegetation growth in Swiss Alps	Switzerland	Geography Hydrology
<u>UNITED KINGDOM</u>				
022 ERTS	D. E. Pedgley Anti-Locust Research Center, London	Detection of potential locust breeding sites	South-West Saudi Arabia	Agriculture Forestry
033 ERTS	D. P. Bickmore Royal College of Art London	Experimental cartography using ERTS Data	South Central England	Geography
044 ERTS	P. G. Mott Hunting Surveys, LTD., Herts	Cartographic research program- ming for small scale mapping	U.K.	Geology
<u>VENEZUELA</u>				
117 ERTS	Manuel J. Corao Ministry of Public Works, Caracas	Urban and regional planning in Venezuela	Northern Venezuela	Geography
120 ERTS	Dr. Adolfo C. Romero Cartografia Nacional, Caracas	Investigate natural resources in remote areas	South Venezuela	Geology

NEWS



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (202) 755-8370
WASHINGTON, D.C. 20546 TELS: (202) 755-8347

FOR RELEASE: UPON RECEIPT

Richard T. Mittauer
(Phone: 202/755-3680)

NOTE TO EDITORS

Several changes should be made in NASA Release No. 71-202, "NASA to Survey Earth's Resources," for release Wednesday AM's, October 20, 1971.

1. One experimenter listed under MISSOURI should be listed under MISSISSIPPI. The address for Proposal No. 240 (ERTS/EREP) should be William H. Stevenson, National Maritime Fisheries Service, National Oceanic and Atmospheric Administration, Bay St. Louis, Miss.

2. Additional negotiations will be required in seven of the experiments which are listed as those on which no negotiations on the experiment plan are required. The seven still in the selection process are:

CALIFORNIA

599 Dr. Dale F. Leipper
EREP Naval Postgraduate School
Monterey

COLORADO

131 Edwin D. McKee
ERTS U.S. Geological Survey
Denver

- more -

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- 2 -

MASSACHUSETTS

555 Prof. H. T. U. Smith
ERTS University of Massachusetts
 Amherst

MICHIGAN

598 Dr. Vann Elliot Smith
ERTS Bendix Corporation
 Ann Arbor

TEXAS

183 Dr. Ralph E. Hunter
ERTS U.S. Geological Survey
 Corpus Christi

VIRGINIA

233 Dr. Alden P. Colvocoresses
ERTS U.S. Geological Survey
 McLean

500 Dr. Alden P. Colvocoresses
EREP U.S. Geological Survey
 McLean

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